

LESSON V. Write one page of *mn*, setting eight of them on a line. Write eight lines on a page, leaving two spaces between the lines. Do you all understand what is meant by a space? Well, take care of the spaces. A little care will prevent mistakes.

LESSON VI. Write one page of *on*, setting about eighteen of them on a line and joining them together by a waving hair stroke. Most letters are formed of straight and curved lines combined. The *o* is formed of curved lines only, a curved shade on the left, and a curved hair line on the right. It is commenced and finished at the top. It forms a part of *a, d, g,* and *g*.

LESSON VII. Write one page of *ce*, drawing about twenty-two of them on a line. This letter is of an oval form, like the *o*, and should, in coarse hand, be commenced and finished at the top.

LESSON VIII. The size of the *mm* in this lesson, is only two spaces. Draw about twelve of them on a line, and write ten lines on a page, leaving two spaces between the lines. Draw the parts of *m* equi-distant: slope them alike, and join them near the bottom.

LESSON IX. Write ten lines on a page of this lesson, taking care to draw word under word, in regular columns. Perpendicular ruled lines, lightly drawn with a pencil, will assist you in preserving this regularity of columns. Form the dot over *i* by a circular movement of the pen, rather than by a sudden pressure.

LESSON X. Write seven lines of *gg* on a page, leaving one space between the lines. Draw about twenty of them on a line. Count off five spaces for the length of *g*, and set a small dot in the margin, at the bottom of the fifth space, then draw the first letter on the line, down as far as the dot, then the whole line may be written without making mistakes in the length. If necessary, let this be done at the beginning of every line of long letters. Make the loops of *g* two spaces and a half long.

LESSON XI. Write seven lines of *pp* on a page, drawing the stem five spaces long, and leaving one space between the lines. Write about twenty of them on a line, joining them together. If you can make a good *p*, you can make a good *h*. Almost all the small manuscript letters in the alphabet, are formed by combining in various ways, six or seven characters, or first principles.

LESSON XII. Write seven lines of *yy* on a page, leaving one space between the lines. Draw about twenty of them on a line; make the loops two spaces and a half long. The last part of *y* is the same as the last part of *g*, and the lower or main part of *j*.

LESSON XIII. Write ten lines, or a page of this lesson, taking care to draw word under word, in regular columns. The top, or point of short *s*, is carried a little higher than the other short letters. The dot or bulb of *s* should be set on the hair line, like the copy, with the hair line running through the centre. The bulb, or last part of *s*, should be made light and delicate. Young writers generally make the bulb of *r, n, m,* and *h*, too coarse and clumsy.

LESSON XIV. Write the words *ammunition* and *examination*, so as to fill a line with the two words, allowing half an inch for an outer margin, and the same for an inner margin. The coarse part of *x* is like the last part of *n*, except it is not made so sloping. Or *x* made with dots and bulbs, is like *c* joined to an inverted *c*.

LESSON XV. Write eight lines of this lesson on a page, drawing word under word, in regular columns. Make *t* three spaces, and *h, d,* and *k*, four spaces in length. The last part of *h* should be written with great care.

LESSON XVI & XVII. Write four pages of capitals; two pages of the first line, or sixteenth lesson, and two pages of the second line, or seventeenth lesson. Write ten lines on a page, leaving one space between the lines. The learner, in order to render the capitals easy, and execute them correctly, should, before he begins to write them, take a pen without ink in it, and run over each capital, a dozen times or more, and accustom his hand to touch lightly with the pen where the hair lines are, and give a gradual waxing and curving pressure on the shades, or coarse marks. Hair lines should be made with the right corner of the pen. Coarse marks should be made by an equal pressure on both teeth of the pen, and without painting or dubbing.

LESSON XVIII. Write one page of figures. Set fourteen lines on a page, leaving one space between the lines.

LESSON XIX. Write a page of the word *compliment*, drawing eight lines on a page, writing it twice on a line, and leaving three spaces between the lines.

LESSON XX. Write a page of the word *implement*, observing the foregoing rule.

Finally, write a page of each remaining lesson, and your book will be filled. Do not hurry over these lessons, but write them with great care, so that when this book is finished, you may be prepared to write *Book Second*. Be careful to make every letter, whether long or short, of the same length, size, shape, and slope as your copy. In a word—*imitate your copy*.



8	Mar	<i>Acer montanum</i>	74
"	"	<i>pennsylvanicum</i>	72
"	"	<i>rubrum</i>	72
"	"	<i>saccharinum</i>	72
17	Sup.	<i>Achillea millefolium</i>	139
12	2-5	<i>Aconitum ursinatum</i>	104
6	Mar.	<i>Acorus calamus</i>	58
7	"	<i>Gesulus hippocastanum</i>	66
12	"	<i>Actea americana, alb.</i>	98
21	Filic	<i>Adiantum pedatum</i>	179
11	2-5	<i>Agrimonia eupatoria</i>	86
10	Pen	<i>Agrostemma coronaria</i>	84
"	"	<i>githago</i>	82
6	Mar	<i>Allium schenoprasium</i>	60
19	Set	<i>Alnus serrulata</i>	163
15	Pol	<i>Althea rosea</i>	125
14	Filic	<i>Alyssum maritimum</i>	117
19	Pen	<i>Amaranthus albus</i>	160
"	"	<i>hypochondriacus</i>	"
"	"	<i>melancholicus</i>	"
"	"	<i>Ambrosia elatior</i>	159
17	"	<i>Ammodium alatum</i>	142
16	Dec	<i>Amphicarpa monica</i>	133
11	Mar	<i>Amygdalus persica</i>	87
10	"	<i>Andromeda calyculata</i>	79
"	"	<i>racemosa</i>	82
3	Dig	<i>Andropogon furcatus</i>	22
12	Pol	<i>Anemone nemorosa</i>	102
"	"	<i>quinquefolia</i>	46
"	"	<i>virginiana</i>	"
5	Dig	<i>Anethum graveolens</i>	48
"	"	<i>Angelica atropurpurea</i>	54
17	Sup.	<i>Anthemis cotula</i>	139
"	"	<i>nobilis</i>	143
3	Dig.	<i>Anthoxanthum odoratum</i>	18
13	Aug.	<i>Antirrhinum majus</i>	110
16	Dec	<i>Apocynum tuberosa</i>	127
5	Dig.	<i>Apocynum androsaemifolium</i>	52
"	"	<i>hypericifolium</i>	39

12	2-5	<i>Aquilegia canadensis</i>	100
"	"	" <i>vulgaris</i>	"
14	Silig.	<i>Arabis canadensis</i>	119
5	Per	<i>Aralia hispida</i>	44
"	"	" <i>nudicaulis</i>	48
"	"	" <i>racemosa</i>	44
10	Mon	<i>Arbutus uva ursi</i>	78
17	Aeg.	<i>Arctium lappa</i>	145
18	Mon	<i>Arcthusa bulbosa</i>	151
12	"	<i>Argemone mexicana, albiflora</i>	97
11	2-5	<i>Aronia arbutifolia</i>	87
"	"	" " <i>melanocarpa</i>	92
"	"	" <i>botryapium</i>	90
17	Sup	<i>Artemisia abrotanum</i>	143
"	"	" <i>absinthium</i>	139
19	Pol	<i>Arum triphyllum</i>	159
18	Dodec	<i>Asarum canadense</i>	151
5	Dig	<i>Asclepias latifolia quadrifolia</i>	47
"	"	" <i>incarnata</i>	54
"	"	" <i>obtusifolia</i>	38
"	"	" <i>phytolaccoides</i>	47
"	"	" <i>syriaca</i>	51
6	Mon	<i>Asparagus officinalis</i>	60
17	Sup	<i>Aster chinensis</i>	147
"	"	" <i>conyzoides</i>	145
"	"	" <i>corymbosus</i>	143
"	"	" <i>panicus</i>	136
16	Dec	<i>Astragalus canadensis</i>	129
3	Dig	<i>Avena sativa</i>	16
10	Mon	<i>Baptisia tinctoria</i>	60
14	Silig.	<i>Barbarea vulgaris</i>	116
4	Mon	<i>Bartonia tenella</i>	30
17	Sup	<i>Beilis perennis</i>	145
6	Mon	<i>Berberis vulgaris, canad.</i>	60
5	Dig	<i>Beta vulgaris</i>	39
19	Pol	<i>Betula lenta</i>	161
"	"	" <i>populifolia</i>	157
17	Fris	<i>Bidens cernua</i>	139
"	"	" <i>frondosa</i>	"

5	Mon	<i>Borago officinalis</i>	51
21	Fil	<i>Botrycium virginicum</i>	176
14	Silig	<i>Brassica oleracea</i>	119
"	"	" <i>rapa</i>	"
17	Sup	<i>Cacalia coccinea</i>	141
"	Dec	<i>Calendula officinalis</i>	138
18	Mon	<i>Calopogon pulchellus</i>	149
12	Pol	<i>Caltha palustris</i>	94
5	Mon	<i>Campanula amplexicaulis</i>	47
"	"	" <i>aparinoides</i>	40
"	"	" <i>medium</i>	54
"	"	" <i>rotundifolia</i>	"
20	Pen	<i>Cannabis sativa</i>	169
5	Mon	<i>Capsicum annuum</i>	39
14	Silig	<i>Cardamine pennsylvanica</i>	115
17	Aeg	<i>Carthamus tinctorius</i>	145
5	Dig	<i>Carum carvi</i>	56
19	Pol	<i>Carya alba</i>	166
"	"	" <i>porcina</i>	161
10	Mon	<i>Cassia marilandica</i>	82
19	Pol	<i>Castanea vesca, americana</i>	157
5	Mon	<i>Ceanothus americanus</i>	54
"	"	<i>Celastrus scandens</i>	37
17	Fris	<i>Centaurea cyaneus</i>	140
"	"	" <i>maritima</i>	142
4	Mon	<i>Cephalanthus occidentalis</i>	30
10	Pen	<i>Cerastium hirsutum</i>	82
"	"	" <i>tenaxifolium</i>	81
12	Pol	<i>Chelidonium majus</i>	85
13	Ang.	<i>Chelone glabra</i>	112
5	Dig	<i>Chenopodium album</i>	38
"	"	" <i>botrys</i>	53
"	"	" xypericum	"
14	Silig	<i>Cleome grandiflora</i>	61
17	Sup	<i>Clethra alnifolia</i>	31
"	"	<i>Chrysanthemum carinatum</i>	147
"	"	" <i>coronarium</i>	136, 147
"	"	" <i>leucanthemum</i>	135, 139

17	Sup.	Chrysanthemum luteum	138
"	"	" parthenium	146
8 or 10	Dig.	Chrysanthemum oppositifolium	68, 84
5	"	Cicuta altifolia maculata	56
"	"	Cicuta maculata	"
2	Mon.	Circaea alpina	4
"	"	" lutea, canad.	4
5	"	Cissus hederacea	42
8	"	Clarkea pulchella	69
"	"	" , alba	"
5	"	Clatonia spatulata	45
12	Pol.	Clematis virginiana	44
17	Aeg.	Cnicus altissimus	146
"	"	" arvensis	143
"	"	" lanceolatus	140
14	Silic.	Cochlearia asmarica	115
19	Tri.	Comptonia asplenifolia	157
5	Dig.	Conium maculatum	49
6	Mon.	Convallaria biflora	62
"	"	" bifolia	"
"	"	" racemosa	"
"	"	" umbellata	"
5	"	Convolvulus sepium	141
"	"	Convolvulus sepium	49
12	Pol.	Coptis trifolia	36
18	Mon.	Coralorhiza odoratiorhiza	153, 155
"	"	" verna	153
17	Fus.	Coreopsis tinctoria	145
4	Mon.	Cornus circinata	32
"	"	" florida	34
"	"	" paniculata	34
"	"	" canadensis	39
16	Hex.	Corydalis cucularia	132
"	"	" glauca	128
19	Pol.	Corylus americana	163
11	2-5	Crataegus coccinea	92
"	"	" punctata	87
"	"	Crepis barbata	144
19	Mon.	Cucumis sativus	155

10	Trig.	Cucubulus bohen	82
19	Mon.	Cucurbita citrullus	158
"	"	" melopepo	164
"	"	" pepo	"
5	Dig.	Cuscuta americana	54
18	Dian.	Cypripedium acaule	149
"	"	" pubescens	150
17	Sup.	Dahlia superflua	47
11	Pol.	Dalibarda fragaroides	87
"	"	" repens	88
5	Mon.	Datura stramonium	53
"	Dig.	Daucus carota	45
12	2-5	Delphinium consolida	102
"	"	" " alb.	95
"	"	" " roseum	"
10	Dig.	Didymis barbatus	85
"	"	" stasyophyllus	"
"	"	" chinensis	"
"	"	" furcata	79
5	Mon.	Dierilla tournefortii	44
13	Ang.	Digitalis purpurea	116
8	Mon.	Dicra polystris	68
16	Dec.	Dotillas labiate	130
5	Hex.	Drosera rotundifolia	44
10	Mon.	Epigaea repens	75
8	"	Epilobium coloratum, tetragonum	68
"	"	" spicatum	"
21	Equis.	Equisetum arvense (fertile)	181
"	"	" hyemale	"
"	"	" sylvaticum	"
17	Sup.	Erigeron bellidifolium	141
"	"	" (S. Gaentz.) canadense	136
"	"	" heterophyllum	138
"	"	" strigosum	145
19	Fet.	Eriocaulon pellucidum	160
3	Mon.	Eriophorum angustifolium	16
6	"	Erythronium dens canis	59

12		<i>Eschscholtzia californica</i>	102
"		" <i>crocea</i>	95
13	Ang.	<i>Euchroma coccinea</i>	110
17	Heg.	<i>Eupatorium perfoliatum</i>	137
19	Mon.	<i>Euphorbia lathyris</i>	160, 164
"	"	" <i>maculata</i>	9
5		<i>Eutoca viscida</i>	51
19	Pol.	<i>Fagus sylvatica</i>	165
11	"	<i>Fragaria virginiana</i>	90
20	Gian	<i>Fraxinus acuminata</i>	171
16	Hex	<i>Humaria officinalis</i>	128
8	Mon.	<i>Fuschia magellanica</i>	69
13	Gym.	<i>Galeopsis Tetrahit</i>	116
4	Mon.	<i>Galium lanceolatum</i>	32
"	"	" <i>trifidum</i>	30
"	"	" <i>triflorum</i>	32
10	"	<i>Gaultheria procumbens</i>	78
5	Dig.	<i>Geranium crinita</i>	42
"	"	" <i>saponaria</i>	9
15	Dec.	<i>Geranium dissectum Robertianum</i>	125
"	"	" <i>maculatum</i>	123
13	Ang.	<i>Gerardia pedicularia</i>	108
"	"	<i>Gerardia purpurea</i>	"
11	Pol.	<i>Geum rivale</i>	90
"	"	" <i>strictum</i>	"
5	Mon.	<i>Gillia tricolor</i>	51
3	"	<i>Gladialis ensiformis</i>	140
13	Gym.	<i>Glechoma hederacea</i>	110
17	Sup.	<i>Gnaphalium dioicum</i>	138
"	"	" <i>margaritaceum</i>	137
"	"	" <i>plantaginum</i>	"
"	"	" <i>polycephalum</i>	"
"	"	" <i>uliginosum</i>	"
8	Mon.	<i>Somphrena globosa</i>	53
18	"	<i>Goodera pubescens</i>	153
6	Trig.	<i>Gyromia virginica</i>	64

18	Mon.	<i>Hamenaria dilatata</i>	151
"	"	" <i>finibrata</i>	153
"	"	" <i>herbiola</i>	"
"	"	" <i>incisa</i>	149
"	"	" <i>macrophylla</i>	151
"	"	" <i>orbiculata</i>	155
"	"	" <i>psyodes</i>	150, 151
4	Dig.	<i>Hamamelis virginica</i>	30
2	Mon.	<i>Hedeoma pulegioides</i>	4
10	Dec.	<i>Hedysarum canadense</i>	133
"	"	" <i>nudiflorum</i>	131
"	"	" <i>paniculatum</i>	133
"	"	" <i>viridiflorum</i>	130
12	Pol.	<i>Helianthemum canadense</i>	150
"	"	" <i>compositum</i>	"
17	Frust.	<i>Helianthus decapetalus</i>	136
12	Pol.	<i>Hepatica triloba, acuta</i>	96
"	"	" <i>obtusata</i>	100
17	Heg.	<i>Hieracium Gronovii</i>	135
"	"	" <i>Kalmii</i>	"
"	"	" <i>paniculatum</i>	"
"	"	" <i>pratense</i>	"
"	"	" <i>venosum</i>	"
4	Mon.	<i>Hieracium cerulea</i>	30
20	Pen.	<i>Humulus lupulus</i>	171
5	Dig.	<i>Hydrocotyle americana</i>	36
12	2-5	<i>Hypericum canadense</i>	94
"	"	" <i>galioides</i>	"
"	"	" <i>perforatum</i>	"
"	"	" <i>quinguenervium</i>	"
6	Mon.	<i>Hypoxis erecta</i>	60
13	Gym.	<i>Hysopus officinalis</i>	112
14	Mon.	<i>Hieris amara</i>	117
"	"	" <i>umbellata</i>	"
5	"	<i>Impatiens balsaminea</i>	40
"	"	" <i>fulva</i>	"
"	"	" <i>pallida</i>	51
17	Sup.	<i>Inula helenium</i>	140

3	Mon	<i>Iris versicolor, sulcata</i>		14	16	Dec	<i>Lupinus albus</i>	132
4	"	<i>Tonardia palustris</i>		32	"	"	<i>crucikshandii</i>	"
19	Pol	<i>Juglans cinerea</i>		162	"	"	<i>hirsutus</i>	"
6	Mon	<i>Juncus effusus</i>		61	"	"	<i>perennis</i>	129
20	"	<i>Juniperus communis, depressa, (staminate)</i>		169	6	Mon	<i>Luzula campestris</i>	61
"	"	<i>" virginiana</i>		171	21	Lycop	<i>Lycopodium annotinum</i>	177
10	Mon	<i>Xalonia angustifolia</i>		78	"	"	<i>Clavatum</i>	"
17	Aeg.	<i>" latifolia</i>		"	"	"	<i>complanatum</i>	"
17	Aeg.	<i>Rigida virginica</i>		123	"	"	<i>dendroidum</i>	"
17	Aeg.	<i>Lactuca elongata</i>		136	"	"	<i>lucidulum</i>	"
"	"	<i>" sativa</i>		145	5	Mon	<i>Lycopsis americanis</i>	37
16	Dec.	<i>Lathyrus odoratus coccineus</i>		127	2	"	<i>Lycopus europaeus</i>	6
9	Mon	<i>Laurus Benzoin</i>		76	"	"	<i>virginicus</i>	6
"	"	<i>" sassafras</i>		"	5	"	<i>Lysimachia ciliata</i>	40
15	Pol	<i>Leucostema trinervis, alba</i>		125	"	"	<i>quadripolia</i>	52
"	"	<i>" " rubra</i>		123	"	"	<i>stricta</i>	40
17	Aeg.	<i>Leontodon taraxacum</i>		141	18	Mon	<i>Malaxis triepolia</i>	185
6	Mon	<i>Leontice thalictroides</i>		57	"	"	<i>" (S.S. Microstylis) ophioglossoides</i>	183
13	Gym	<i>Leonurus cardiaca</i>		136	15	Pol	<i>Malva crispa</i>	135
14	Elie	<i>Lepidium sativum</i>		117	"	"	<i>" rotundifolia</i>	133
"	"	<i>" virginicum</i>		118	13	Gym	<i>Morubium vulgare</i>	114
16	Dec	<i>Lespedeza frutescens</i>		131	"	Aug.	<i>Moraynia proboscidea</i>	107
"	"	<i>" hirta</i>		"	"	"	<i>Melampyrum lineare</i>	108
"	"	<i>" serotiflora</i>		"	16	Dec	<i>Melilotus vulgaris</i>	132
17	Aeg.	<i>Liatris scariosa</i>		144	13	Gym	<i>Melissa officinalis</i>	60
6	Mon	<i>Lilium canadense</i>		64	"	"	<i>Mentha borealis</i>	110
"	"	<i>" philadelphicum</i>		"	"	"	<i>" piperita</i>	112
"	"	<i>" tigrinum</i>		89	"	"	<i>" viridis</i>	106
4	"	<i>Linnæa borealis</i>		32	"	Aug.	<i>Mimulus ringens</i>	106
5	Pent	<i>Linum usitatissimum</i>		59	5	Mon	<i>Mirabilis jalapa</i>	43
"	"	<i>" virginianum</i>		38	4	"	<i>Mitchella repens</i>	30
"	Mon	<i>Lobelia cardinalis</i>		42	10	Big.	<i>Mullella discphylla</i>	86
"	"	<i>" inflata</i>		40	19	Mon	<i>Momordica echinata</i>	164
"	"	<i>" nuttallii</i>		52	10	"	<i>Momotropa hypopithy</i>	84
"	"	<i>Leonicea parviflora</i>		43	"	"	<i>" uniflora</i>	"
"	"	<i>" sempervirens</i>		56	19	Tet	<i>Morus alba</i>	163
					20	Tri	<i>" moretti</i>	"
							<i>Myrica gale</i>	169

6	Mon	Narcissus poeticus	89	5	Mon	Petunia phoenicia	47
"	"	pseudo-narcissus	84	3	Dig	Phalaris americana, picta	16
18	"	Neottia cernua	149	"	"	canariensis	20
"	"	" tortilis	"	16	Dec	Phaseolus nanus	128
13	Syn	Nepeta catania	106	3	Dig	Phleum pratense	18
15	Mon	Nicotiana tabacum	47	5	Mon	Phlox drummondii	41
12	2-5	Nigella damascena	95	"	"	" paniculata	"
"	Mon	Nymphar advena	"	"	"	" subulata	45
"	"	Nymphalaea odorata	96	10	Dec	Physolacca decandra	80
20	Pen	Nyssa villosa (pistillate)	177	11	Mon	Philadelphus coronarius	92
"	"	" " (staminate)	"	19	"	Pinus canadensis	167
8	Mon	Oenothera biennis	68	"	"	" rigida	157
"	"	" chrysantha	"	"	"	" strobus	"
"	"	" grandiflora	74	16	Dec	Pisum sativum	133
"	"	" lindleyana	69	"	"	" " humile	"
"	"	" minima	68	4	Mon	Ranunculus lanceolatus	31
21	Filic	Onoclea sensibilis	179	"	"	" major	30
18	Mon	Orchis tridentata	149	19	Pol	Platanus occidentalis	166
13	Aug.	Orobancha uniflora	112	18	Mon	Pogonia sphegossoides	149
21	Filic	Osmunda cinnamomea	175	16	Oct	Polygala paucifolia, (alba ?) {	129
"	"	" interrupta	"	"	"	" " (rubra ?) }	129
"	"	" regalis	"	"	"	" polygama	"
19	Pol	Ostrya virginica	167	"	"	" purpurea	"
10	Pen	Oxalis stricta	50	"	"	" verticillata	"
"	"	" acetosella	"	8	Tri	Polygonum aviculare	70
8	Mon	Oxycochus macrocarpus	68	"	"	" convolvulus	"
5	Dig	Panax trifolium (pistil)	36	"	"	" pagonopyrum	"
"	"	" " (stam.)	36	"	"	" orientale	"
3	"	Panicum crus-galli	18	"	"	" persicaria	"
"	"	" latifolium	24	"	"	" sagittatum	"
12	Mon	Papaver rhoeas	104	"	"	" scandens	"
"	"	" somniferum	"	"	"	" virginianum	"
5	Tet	Parnassia caroliniana	36	21	Filic	Polypodium vulgare	179, 181
"	Dig	Pastinaca sativa	42	6	Mon	Potentilla cordata	58
13	Aug	Pedicularis canadensis	110	20	Oct.	Populus deltata (stam.)	173
10	Pen	Penthorum sedoides	80	"	"	" grandidentata (pistil)	"
15	Mon	Petunia nitidiflora	57	"	"	" tremuloides (20)	"
				12	Mon	Portulacca oleracea	102
				4	Tetr	Potamogeton intermedius terrestris	30

11	Pol	Potentilla argentea	86	5	Tri	Rhus typhina	38
"	"	" canadensis	87	"	"	" venosa	"
"	"	" hirsuta	86	19	Mon	Ribes communis	160
"	"	" norvegica	"	5	"	Ribes floridum	36
"	"	" simplex	90	"	"	" rubrum	32
19	Pol	Poterium sanguisorba	166	"	"	" triflorum	"
17	Aeg.	Primula alba	135	16	Dec	Robinia pseudoacacia	127
6	Mon	Prinos verticillatus	60	11	Pol	Rosa alba	91
13	Gym	Prunella vulgaris	106	"	"	" bingundica	"
11	Mon	Prunus domestica	87	"	"	" carolina	90
"	"	" pennsylvanica	90	"	"	" cin namomea	91
"	"	" serotina	92	"	"	" damascena	96
"	"	" virginiana	86	"	"	" gallica	91
13	Gym	Pycnanthemum lanceolatum	114	"	"	" laevis gemella	90
10	Mon	Pyrola rotundifolia	78	"	"	" parviflora	91
"	"	" secunda	82	"	"	" spinosissima	91
"	"	" umbellata	78	"	"	Rubus canadensis	88
11	2-5	Pyrus communis	92	"	"	" abbreviatus	"
"	"	" cydonia	87	"	"	" occidentalis	"
"	"	" malus	92	"	"	" odoratus	"
19	Pol	Quercus alba	161	"	"	" strigosus	"
"	"	" laurasteri	165	"	"	" tinctoria	"
"	"	" coccinea	161	"	"	" villosus	"
12	Pol	Ranunculus acris	98	6	Tri	Rumex acetosella	61
"	"	" fascicularis	"	"	"	" crispus	60
"	"	" recurvatus	"	"	"	" obtusifolius	59
"	"	" repens	"	10	Mon	Ruta graveolens	84
"	2-5	Rereda odorata	104	19	Pol	Sagittaria sagittifolia	159
5	Mon	Rhamnus catharticus	53	"	"	" " " gracilis	"
14	Filig.	Rhaparhanus sativus, p. form.	115	"	"	" " " hastata	"
10	Mon	Rhododendron nitidum	82	5	Trig.	Sambucus canadensis	48
"	"	" undiflorum	78	"	"	" pubescens	"
"	"	Rhodora canadensis	81	"	Dig	Tanacetum marilandica	36
5	Tri	Rhus copallinum	43	10	"	Taponaria officinalis	79
"	"	" glabrum	50	12	Mon	Taraxacum purpurea	96
"	"	Toxicodendron	"	13	Gym	Tatarica hortensis	114
"	"	" " " radicans	"	10	Dig	Taxifraga pennsylvanica	81

10	Dig	Lasiopogon virginica	81	6	Mon.	Streptopus roseus	63
4	Mon	Lachnosa atropurpurea	34	5	"	Symphitum officinale	54
16	"	Leliganthus parietens	128	4	"	Synlocarpus foetida	31
"	"	Schizanthus pinnatus	130	2	"	Syringa vulgaris	8
3	Mon	Serpis tenuis	16				
13	Gym	Scutellaria galeniculata	110	17	Sup.	Tagetes erecta	144
"	"	lateriflora	108	"	"	" patula	138, 147
3	Dig	Tecale cernale	16	"	"	Tanacetum vulgare	142
10	Per	Tedum ternatum	81	20	Mon.	Taxus canadensis	170
17	Sup	Tenecio aureus	141	13	Pol.	Thalictrum dioicum	98
"	"	" hieracifolius	143	5	Mon.	Thesium umbellatum	45
"	"	" obtusatus	142	13	Gym.	Thymus vulgaris	114
3	Dig	Tetania glauca	18	10	Dig.	Thiarella cordifolia	78
15	Pol.	Tida abutilon	123	12	Mon.	Tilia glabra	100
10	Tri	Tilene armeria	81	3	Dig.	Trichodum laxiflorum	24
"	"	" pennsylvanica	79	13	Gym.	Trichostema dichotoma	106
14	Silig.	Tinapis alba	116	7	Mon.	Trientalis americana	66
"	"	" nigra	115	16	Dec.	Trifolium arvense	127
5	Dig	Tison aureus	54	"	"	" pennsylvanicum	130
4	Silig.	Tisymbrium officinale	115	"	"	" pratense	127
3	Mon.	Tisymbrium anceps	14	"	"	" procumbens	"
5	Dig	Tium latifolium	45	"	"	" repens	"
20	Hex	Tuila peduncularis (pistillate)	169	6	Tri.	Trillium erectum	63
5	Mon	Tolanum Lycopersicum	53	"	"	" erythrocapon	58
"	"	" nigrum	52	3	Dig.	Triticum aestivum	20
"	"	" pseudo capsicum	51	8	Mon.	Tropaeolum majus	74
"	"	" tuberosum	52	17	Sup.	Tussilago perfoliata	141
17	Sup	Tolidago altissima	140	19	Tri.	Typha latifolia	159
"	"	" bicolor	137				
"	"	" odora	143	5	Dig.	Ulmus americana	39
"	Aeg	Urtica olivacea	142	19	Tet.	Urtica dioica	161
11	2-5	Urtica americana	90	6	Mon.	Urtica perfoliata	59
17	Sup	Tolidago lateriflora	143	"	"	" sessilifolia	67
10	Per	Spergula arvensis	80				
11	2-5	Urtica salicifolia	86	10	Mon.	Vaccinium corymbosum	79
"	"	" tomentosa	"	"	"	" frondosum	82
5	Mon	Urtica marilandica	39	"	"	" pennsylvanicum	84
10	Trig	Urtica lanceolata	79	"	"	" resinosa	82
"	"	" media	82	"	"	" stamineum	81

6	Tri.	<i>Veratrum viride</i>	58	6	Mon.	<i>Allium cepa</i>
5	Mon.	<i>Verbascum thapsus</i>	40	5	Dig.	<i>Aspidium petroelinum</i>
13	Ang.	<i>Verbena hastata</i>	112	21	Fil.	<i>Aspidium acrostioides</i>
"	"	" <i>longifolia</i>	114	17	Sup.	<i>Aster chinensis</i> , var.
"	"	" <i>urticifolia</i>	108	"	"	" <i>linariifolius</i>
2	Mon.	<i>Veronica arvensis</i>	4	"	"	" <i>macrophyllus</i>
"	"	" <i>peregrina</i>	8	"	"	" <i>multiflora</i>
"	"	" <i>scutellata</i>	6	"	"	" <i>mutabilis</i>
"	"	" <i>serpyllifolia</i>	4	"	"	" <i>recurvatus</i>
5	Tri.	<i>Viburnum acerifolium</i>	48	19	Pol.	<i>Betula papyracea</i>
"	"	" <i>pauciflorum</i>	36	1	Dig.	<i>Milium virgatum</i>
"	"	" <i>lentago</i>	36	21	Fil.	<i>Botrychium fumanoides</i>
"	"	" <i>opulus, roseum</i>	43	"	"	" <i>obliquum</i>
16	Dec.	<i>Vicia sativa</i>	131	1	Dig.	<i>Callitriche autumnalis</i>
8	Mon.	<i>Villarsia lacunosa</i>	52	"	"	" <i>verna</i>
"	"	<i>Vinca minor</i>	49	19	Tri.	<i>Carex digitalis</i>
"	"	<i>Viola blanda</i>	46	"	"	" <i>nigra</i>
"	"	" <i>canadensis</i>	49	"	"	" <i>scabrosa</i>
"	"	" <i>cucullata</i>	46	"	"	" <i>scoparia</i>
"	"	" <i>lanceolata</i>	45	"	"	<i>Celosia cristata, lutea</i>
"	"	" <i>muhlenbergii</i>	46	"	Mon.	<i>Cucumis melo</i>
"	"	" <i>ovata</i>	"	10	Dig.	<i>Dianthus argophyllus</i> , <i>albus</i>
"	"	" <i>pedata</i>	"	"	"	" <i>variegatus</i>
"	"	" <i>pubescens</i>	"	8	Mon.	<i>Epilobium rosmarinifolium</i>
"	"	" <i>rostrata</i>	"	21	Equis.	<i>Equisetum arvense</i> (sterile)
"	"	" <i>rotundifolia</i>	"	3	Mon.	<i>Euphorium virginicum</i>
"	"	" <i>sagittata</i>	"	17	Aeg.	<i>Eupatorium purpureum</i>
"	"	" <i>tricolor</i>	"	"	"	" <i>verticillatum</i>
"	"	<i>Vitis labrusca</i> (part)	37	4	Mon.	<i>Galium asprellum</i>
"	"	" (stam.)	"	"	"	" <i>cicazans</i>
"	"	" <i>rupestris</i>	49	13	Angie.	<i>Gerardia flava</i>
"	"	<i>Xylosteum ciliatum</i>	44	5	Mon.	<i>Gomphrena globosa, alba</i>
"	"	" <i>villosum</i>	"	17	Frus.	" <i>striata</i>
19	Tri.	<i>Yucca filifera</i>	158	"	"	" <i>tuberosus</i>
17	Sup.	<i>Zeranthemum annuum</i>	144	6	Mon.	<i>Hemerocallis flava</i>
"	"	" <i>lucidum</i>	"	14	Siliq.	<i>Hesperis matronalis</i>
"	"	<i>Zinnia elegans</i>	146	"	"	" <i>tristis</i>
"	"	" <i>rubra</i>	"	"	"	"

Hydrophyllum virginicum
Hypericum angulosum
 " *punctatum*
Ilex canadensis
Ipomoea purpurea
Juncus tenuis ?
Juniperus communis, *depressa* (pistil.)
Lathyrus odoratus
Lechea major
 " *minor*
Ligusticum levisticum
Liliera convallarioides ?
Nollugo verticillata
Monarda difphylla, *angustifolia*
Nysia cerifera
Oxalis violacea
Panicum capillare
 " *nitidum*, *gracile*
Phaseolus vulgaris
Pinus alba
 " *nigra*
Poa annua
Pogonia verticillata
Populus tremuloides (stam.)
Prunus cerasus
Pteris aquilina
Pyrola maculata
 " *uniflora*
Rhaphanus sativus, *orbiculatus*
Rosa sempervirens
Rubus saxatilis, *canadensis*
Rugina procumbens
Salvia officinalis
Sedum telephium
Silene antirrhinum
Smilax pedunculata (stam.)
Solidago stricta
Sparganium ramosum
 "

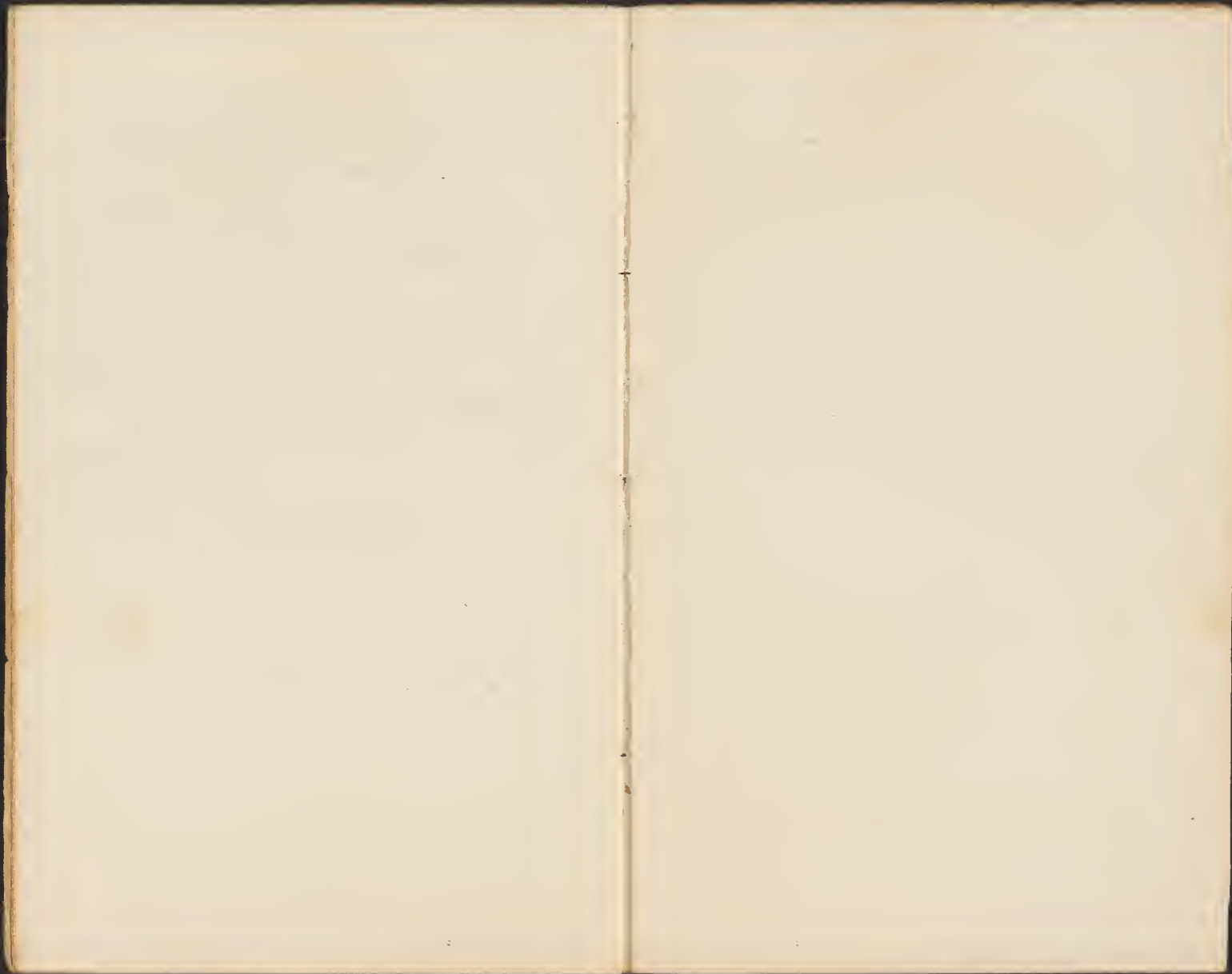
17

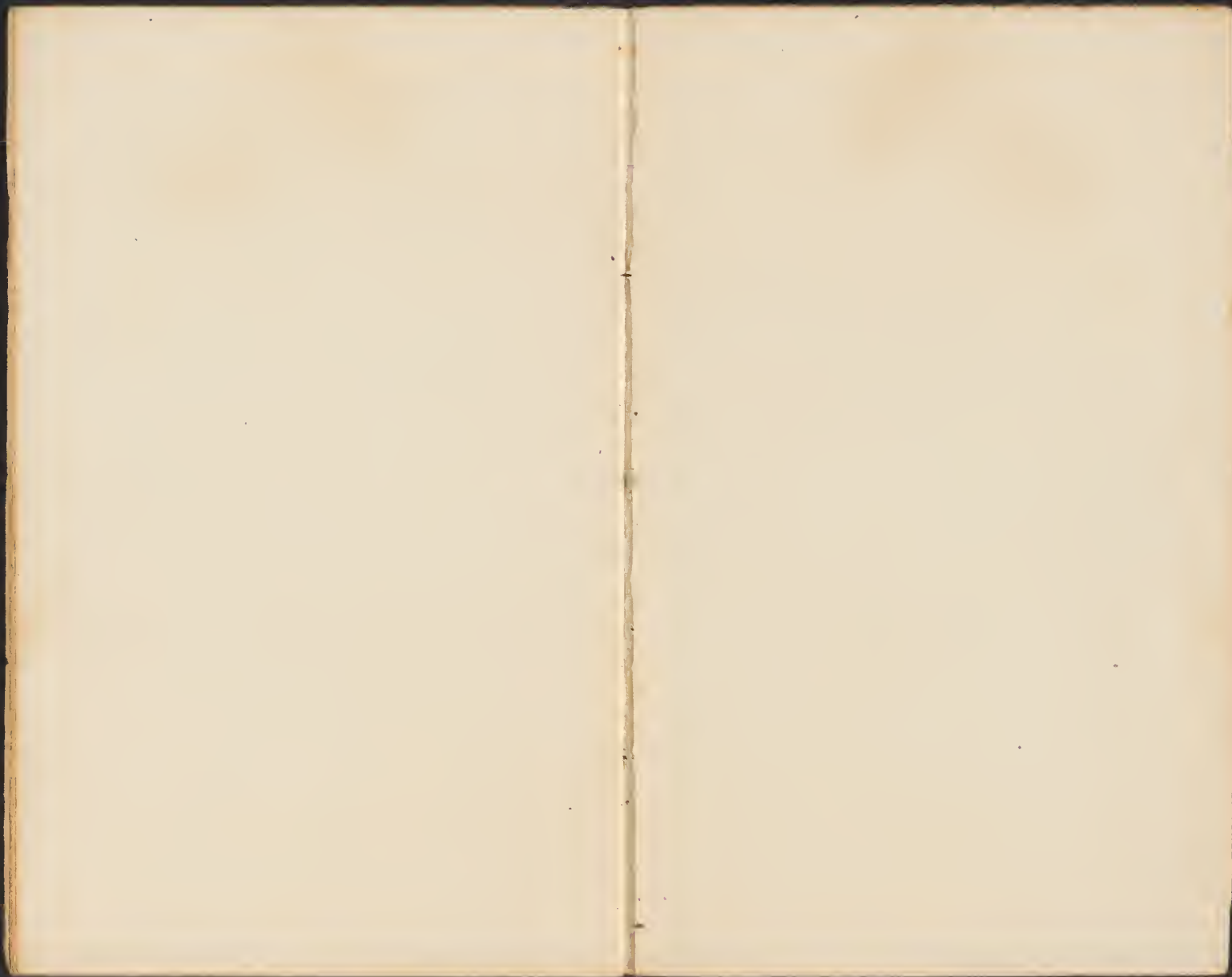
step.

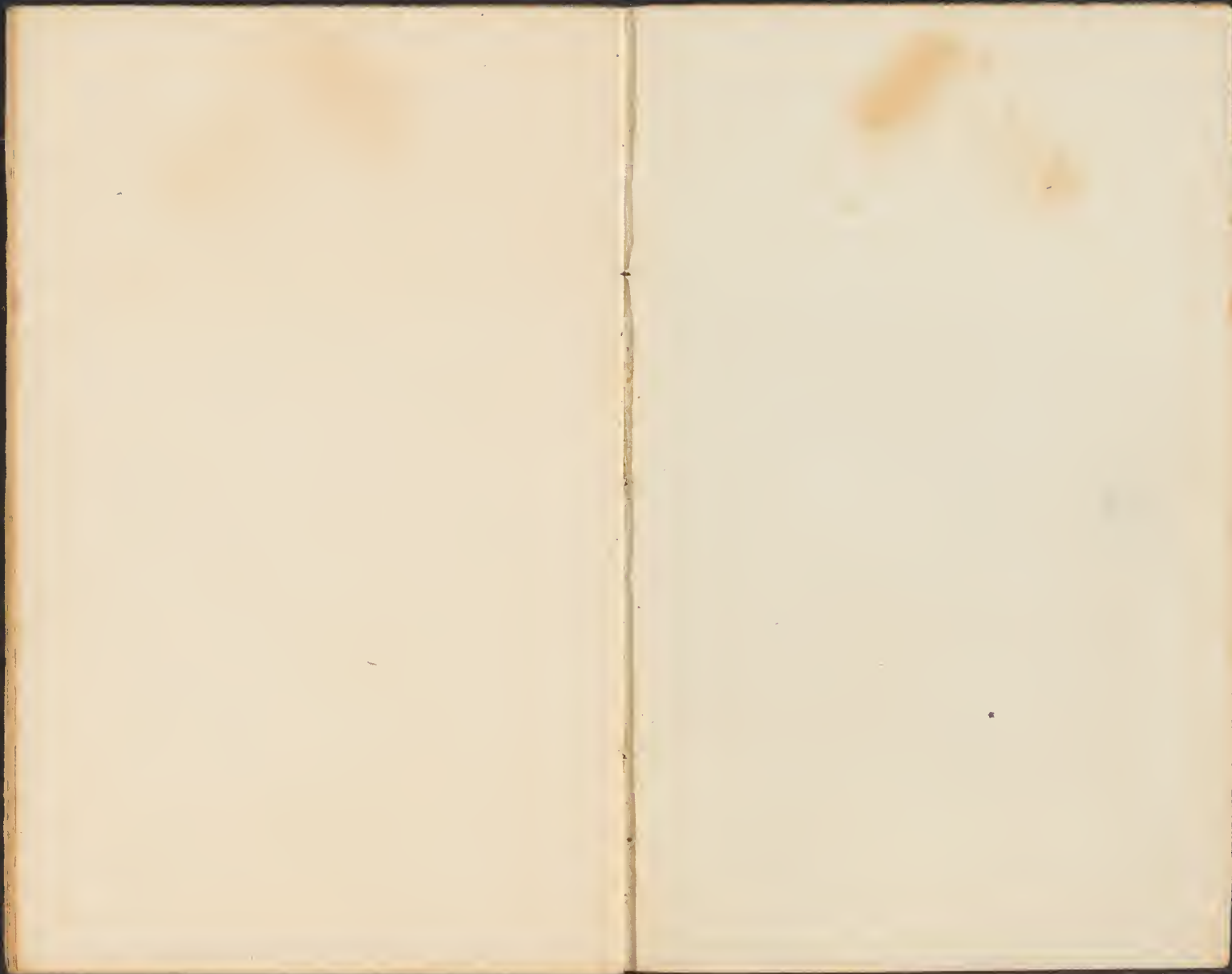
Tragopogon porrifolium
Tulipa gesneriana
Viburnum oxycoccus
 " *pyrifolium*

This booklet brought to
the Gray Herbarium Sept., 1964
by Ruth Coolidge of Brookline,
Mass., a descendant of George
Pierce whose herbarium was
supposedly given to the Gray
about 1947. Pierce was
a physician and Harvard College
graduate and was born
about 1807.

R. C. Rollins









General Remarks.

This little work, on Chirography, is comprised in Four Books. Book First is intended for those who are just commencing to write. Book Second is intended for those who have made some progress in writing. The Third and Fourth Books are intended for the higher classes. The copies are designed to be cut out, and used as copy-slips. Each book is to be filed according to the directions on the cover. The course of lessons in the four books, are such as to conduct the young learner by regular and progressive steps, from the simplest elements, to the more complete part of penmanship; and the style is calculated to lead the pupil into a legible and elegant, as well as expeditious and business-like mode of writing.

This work is offered at a price so low, that every child can have it, or, at least, part of it, who is able to purchase a writing book. It may, therefore, be introduced into every school throughout the country. In large schools, it may be well for the writers to be divided into four classes. Let those who use Book First belong to the first division; and let those who use Book Second, belong to the second division, &c. If the first and second divisions were to write in the forenoon, and the third and fourth divisions in the afternoon, it would undoubtedly afford the teacher a better opportunity of giving particular instruction to each scholar. The limits of the work admit only of general directions. It is left with teachers to give any further instructions which may be necessary.

Sitting, and Laying the Paper.

Sit at a convenient distance, and incline the left side towards the desk, without leaning upon, or even touching it with the body; by which means, the right shoulder will extend further from the desk than the left, and give a natural and easy slope to the writing. Let the paper lie parallel with the edge of the desk, and at a small distance to the right of the body. Rest lightly on the left arm, and with the fingers of the left hand, keep the paper firm and smooth, placing them below the line, near the pen. The body should incline a little forward, and the head answer to this inclination, without resting on either shoulder. Keep the elbow of the right arm at a small distance from the side, and let the arm rest lightly upon the desk, about half way between the end of the fingers and the elbow.

Holding the Pen.

The pen should be held loosely, between the end of the thumb and middle finger, near the corner of the nail of each; the fore-finger should be on the top, or back of the pen, and be just as low as the top of the nail of the middle finger: the distance from the middle to the point of the pen, should be at least half an inch. The joints of the thumb should extend outward, and the end be raised about as high as the first joint of the fore-finger. Incline the third and fourth fingers under, towards the hollow of the hand, and rest lightly on the ends of each. The pen should be held with the feather ranging over the right shoulder, so that the teeth of it may have equal pressure on the paper. (*See the Hands on the title page.*)

General Directions.

Write one page of each lesson. The number of lessons in this book is thirty (*See Plate in the middle of the book.*) The copies are to be cut out, and placed before the learner. In the first place, cut out a slip embracing seven lessons. When these are written, cut out three lines more, &c. On the right hand page, cut out a slip embracing the capitals and figures. When these are written, cut out the remaining six lines, and write a page of each word.

Lesson I. Write about forty straight marks on a line; and eight lines on a page, leaving two spaces between the lines. The distance from one ruled line to another we will call a space. The marks in the first lesson are drawn three spaces in length. Set them equally distant, and give them all the same slope. The second, third, fourth, fifth, sixth, and seventh lessons, are drawn three spaces in length.

Lesson II. Write one page of this character, joining them together near the bottom. Set about thirty of them on a line; write eight lines on a page, leaving two spaces between the lines.

Lesson III. Write one page of this character, joining them together near the bottom. Set about thirty of them on a line; write eight lines on a page, leaving two spaces between the lines.

Lesson IV. Write one page of this character, forming the top and bottom turns alike, and setting about twenty-four of them on a line. All top and bottom turns should be made without lifting the pen from the paper. This character forms the last part of *m*, *n*, *p*, and *h*, and the first part of *y*. What character forms the first part of *m* and *n*?

14
13
12
11
10

1000

Everlasting Pea

Sweet William

Larkspur

Escholtzia

Star of Bethlehem

Double Feather fern

Widenwort or Cat's paw

Scarlet snapdragon

Pink double Poppy

Princess' Feather

Love lies bleeding 2

Cockscomb

Flax

Anise

Blue bell or modesty

White Candy tuft

White Marigold